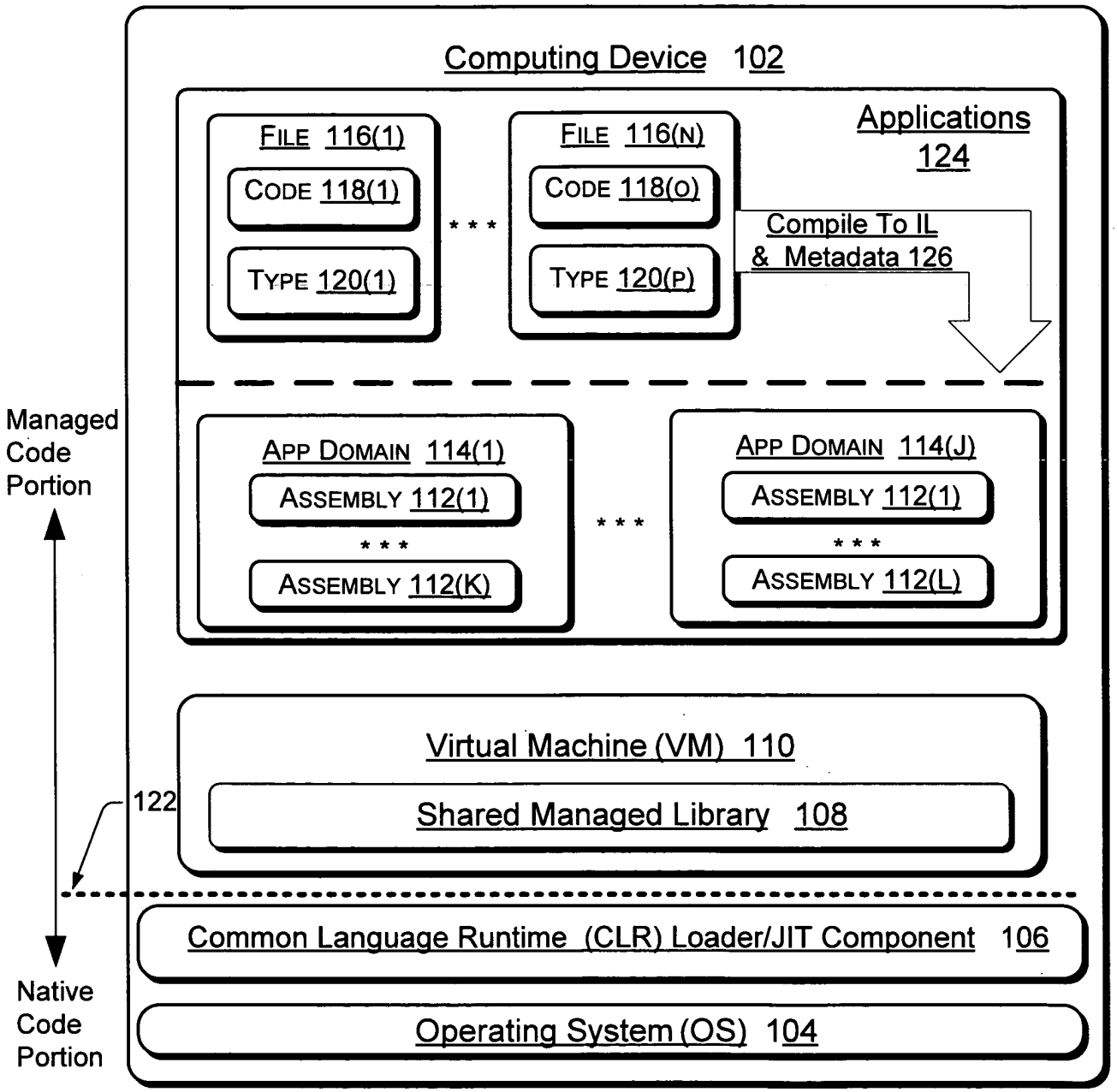
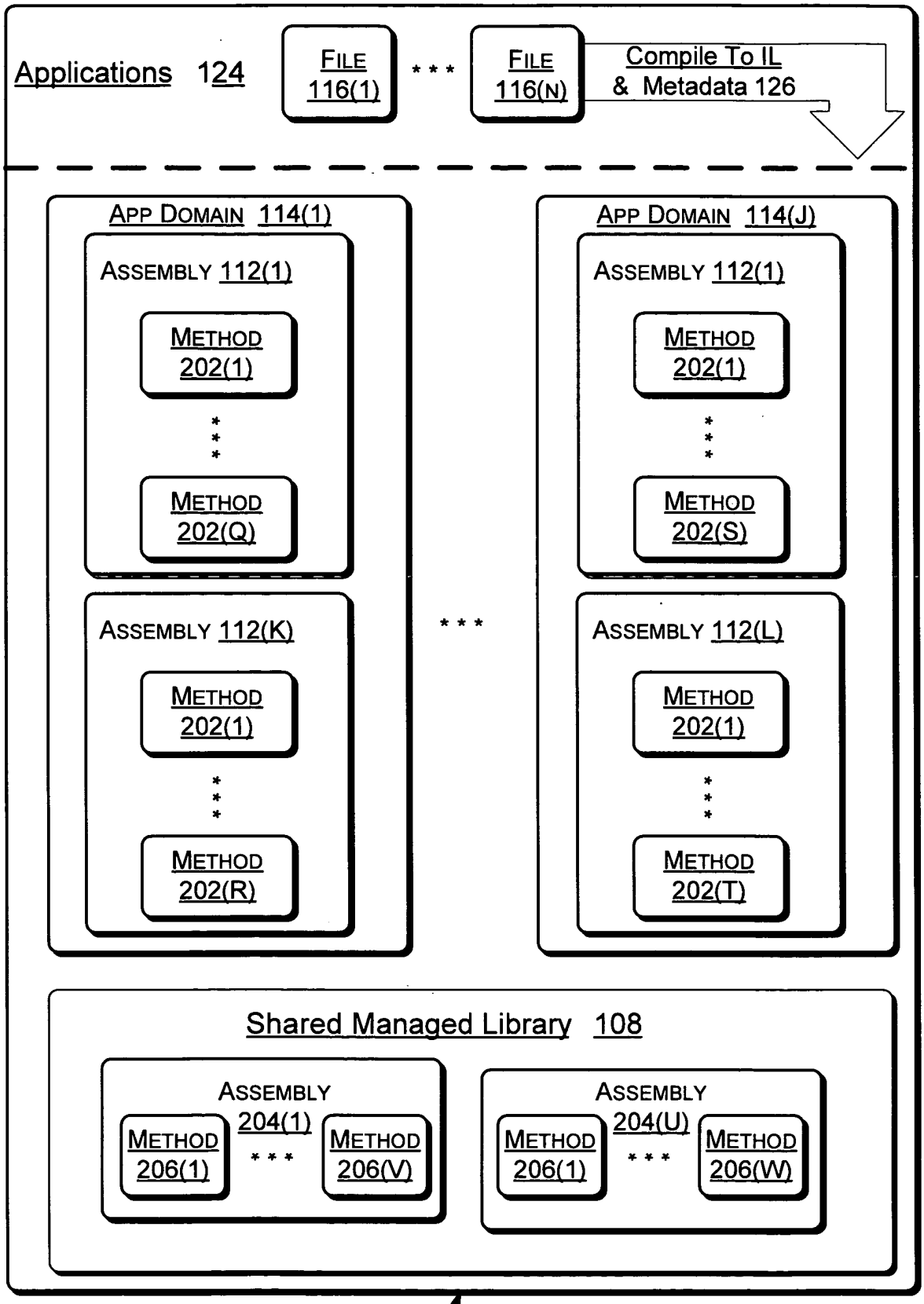

Computing Device 102
Applications 124
FILE 116(1)
CODE 118(1)
TYPE 120(1)
FILE 116(N)
CODE 118(O)
TYPE 120(P)
Compile To IL & Metadata 126
APP DOMAIN 114(1)
ASSEMBLY 112(1)
ASSEMBLY 112(K)
APP DOMAIN 114(J)
ASSEMBLY 112(1)
ASSEMBLY 112(L)
Managed Code Portion
Virtual Machine (VM) 110
Shared Managed Library 108
122
Common Language Runtime (CLR) Loader/JIT Component 106
Operating System (OS) 104
Native Code Portion

Figure 1


Applications 124
FILE 116(1)
FILE 116(N)
Compile To IL & Metadata 126
APP DOMAIN 114(1)
ASSEMBLY 112(1)
METHOD 202(1)
METHOD 202(Q)
ASSEMBLY 112(K)
METHOD 202(1)
METHOD 202(R)
APP DOMAIN 114(J)
ASSEMBLY 112(1)
METHOD 202(1)
METHOD 202(S)
ASSEMBLY 112(L)
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ASSEMBLY 204(1)
METHOD 206(1)
METHOD 206(V)
ASSEMBLY 204(U)
METHOD 206(1)
METHOD 206(W)
Managed Code Portion

Figure 2

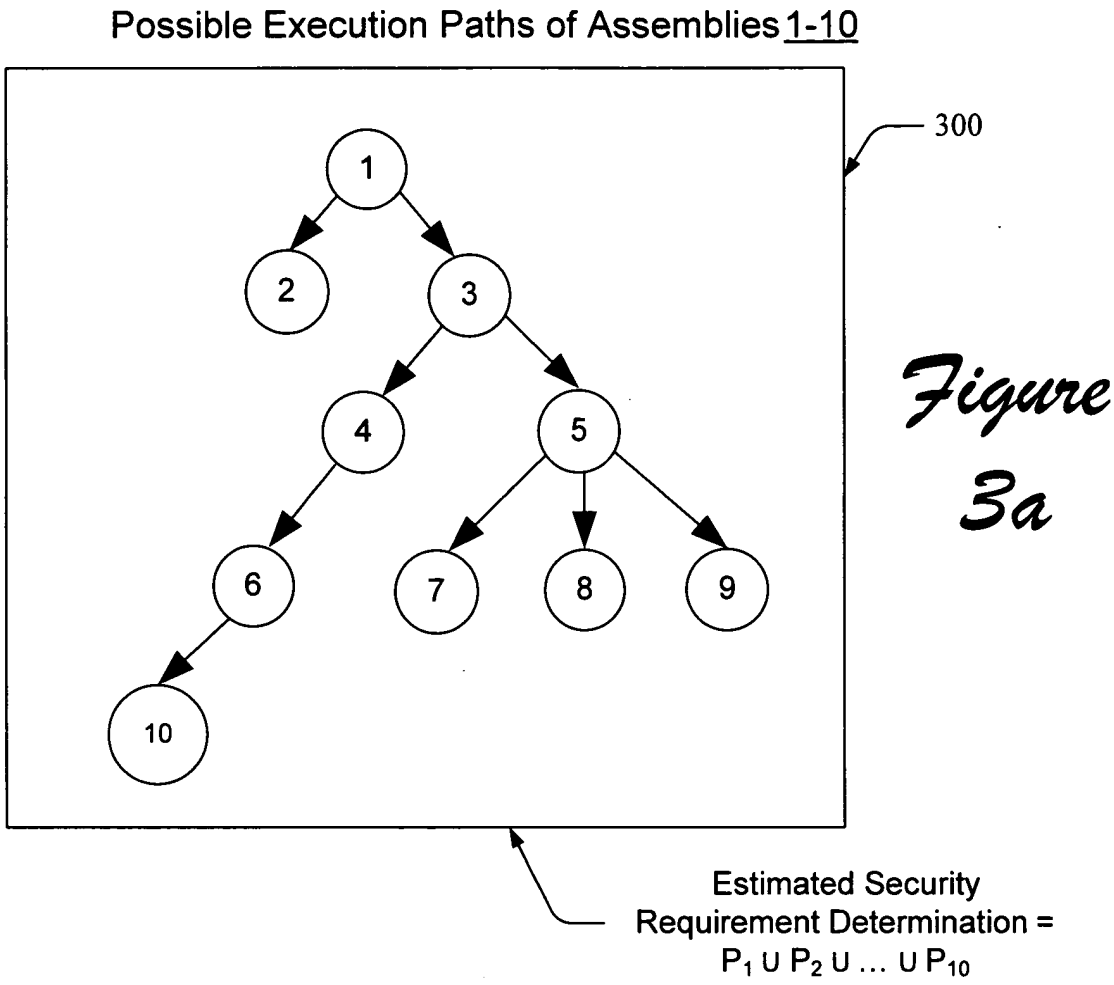
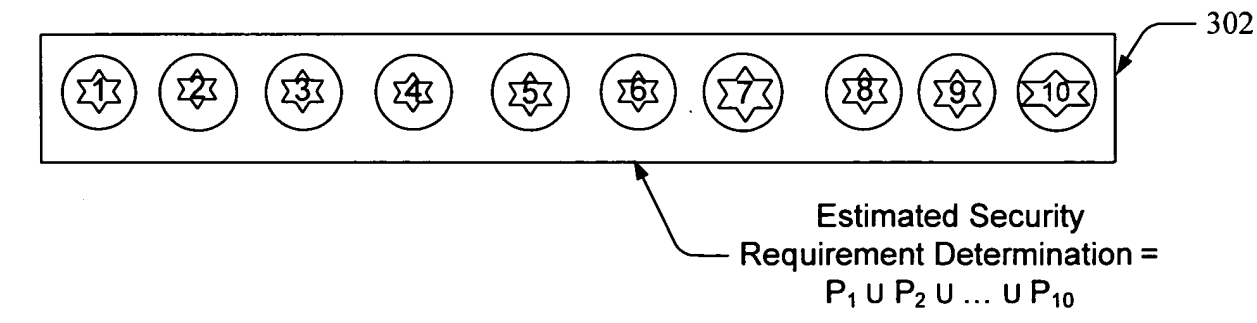


Figure 3a

Figure 3b



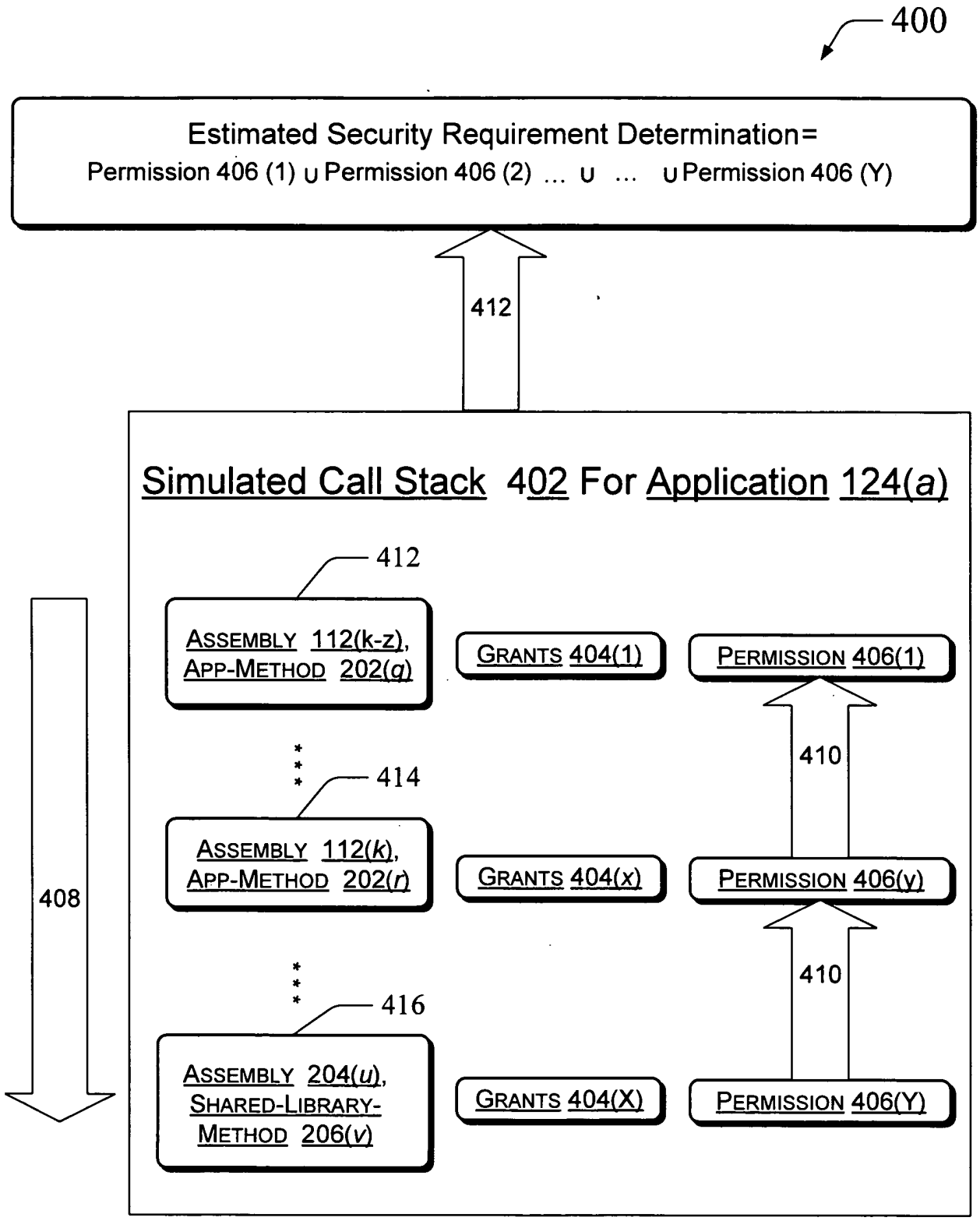

400
Estimated Security Requirement Determination=
Permission 406 (1) ∪ Permission 406 (2) ... ∪ ... ∪ Permission 406 (Y)
412
Simulated Call Stack 402 For Application 124(a)
412
Assembly 112(k-z), App-Method 202(q)
Grants 404(1)
Permission 406(1)
410
414
Assembly 112(k), App-Method 202(r)
Grants 404(x)
Permission 406(y)
410
408
416
Assembly 204(u), Shared-Library-Method 206(v)
Grants 404(X)
Permission 406(Y)

Figure 4

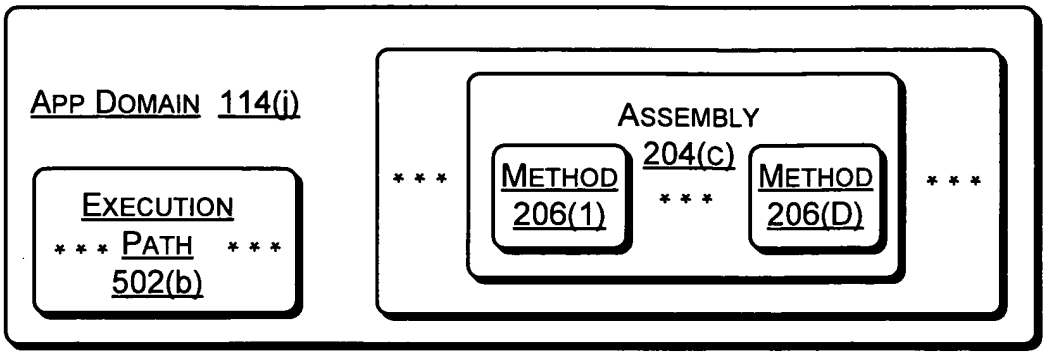


Fig. 5a

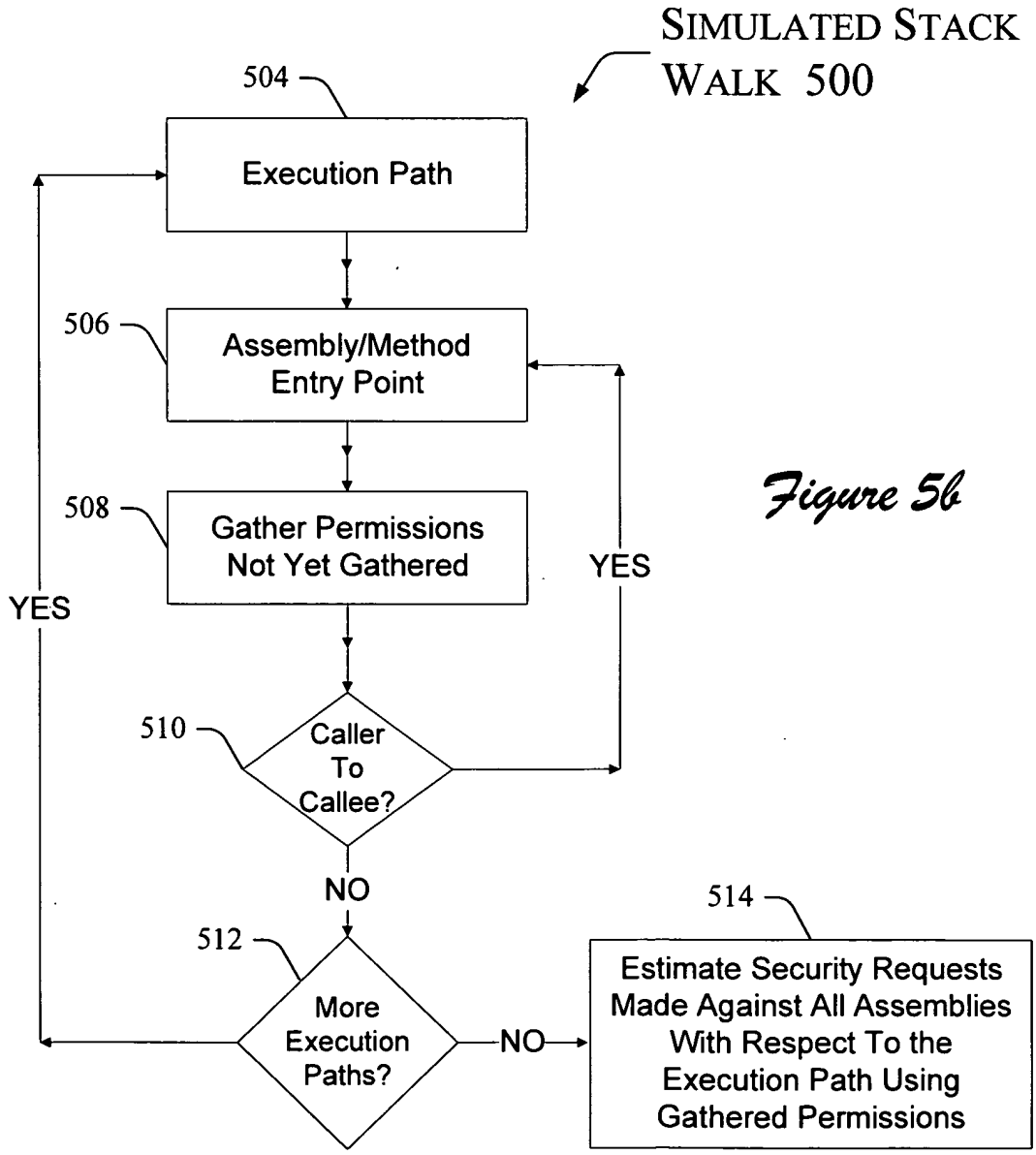
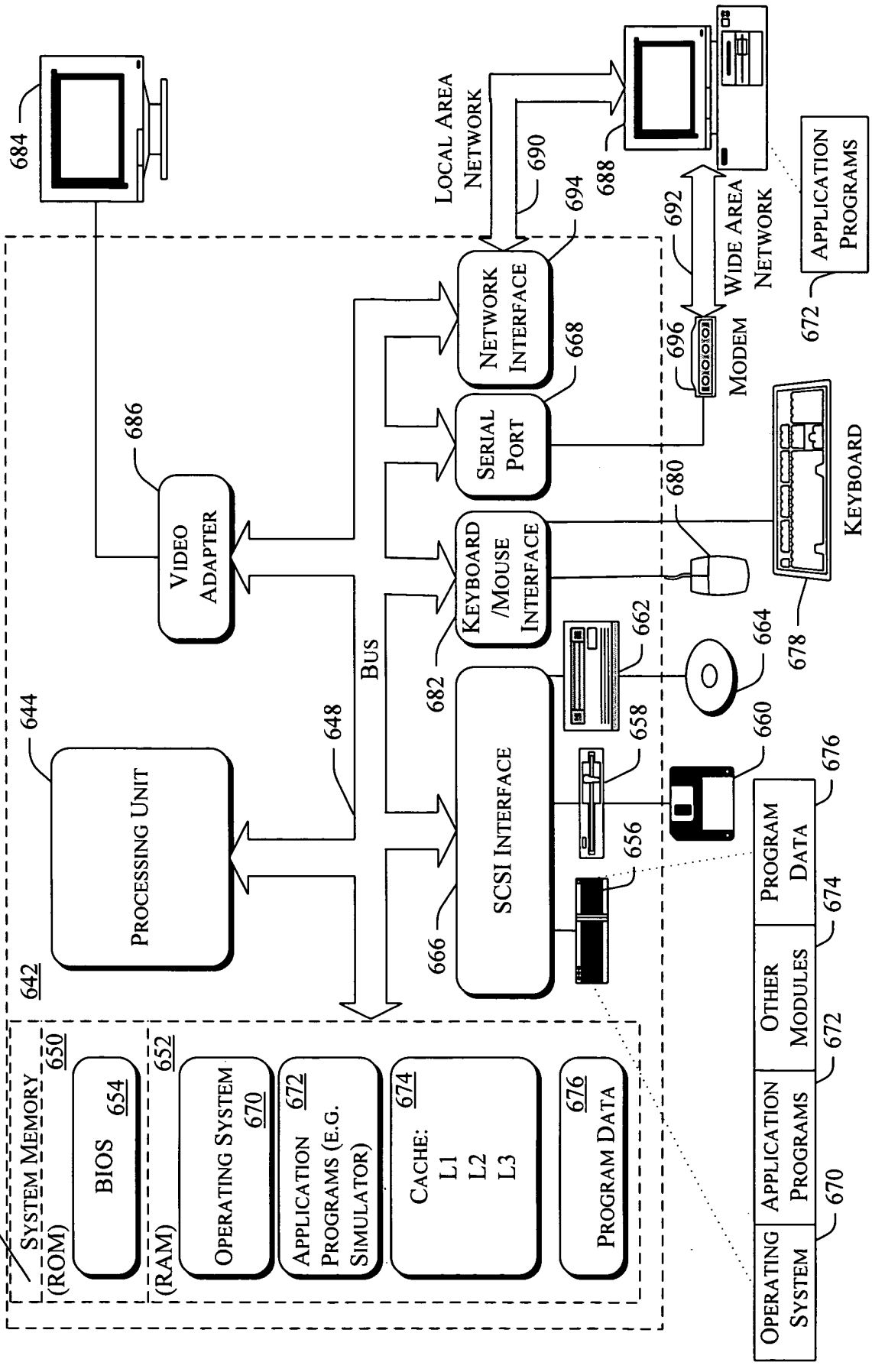


Figure 5b

Figure 6


684
LOCAL AREA NETWORK
690
694
688
692
WIDE AREA NETWORK
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KEYBOARD /MOUSE INTERFACE
KEYBOARD
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662
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644
PROCESSING UNIT
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682
658
660
676
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